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(54) **SLIDING MEMBER**

(57) Abstract:

PROBLEM TO BE SOLVED: To produce a sliding member jointly having rigidity, wear resistance and corrosion resistance at a stroke by subjecting a martensitic stainless steel contg. a specified amt. of C to cold forging as-annealed and subjecting the surface to nitriding, treatment.

SOLUTION: A martensitic stainless steel contg., by weight, $\leq 0.3\%$ C is heated at 850° for 30 min, is

annealed and is subjected to cold die forging to form into a stock. It is subjected to gas nitriding at 500 to 560°C for 3 to 35 hr in an NH_3 cracked gas. As the martensitic stainless steel, SUS403 (0.1C-12Cr-Fe), SUS410 (0.1C-Si-Fe), SUS410J1 (0.15C-13Cr=0.5Mo-Fe) and SUS (0.1C-0.5Si-0.8Mn-13Cr-Fe) are given. The steel is preferably added with one or more kinds among $\leq 1\%$ V, $\leq 0.5\%$ Nb and $\leq 3\%$ Cu.

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